



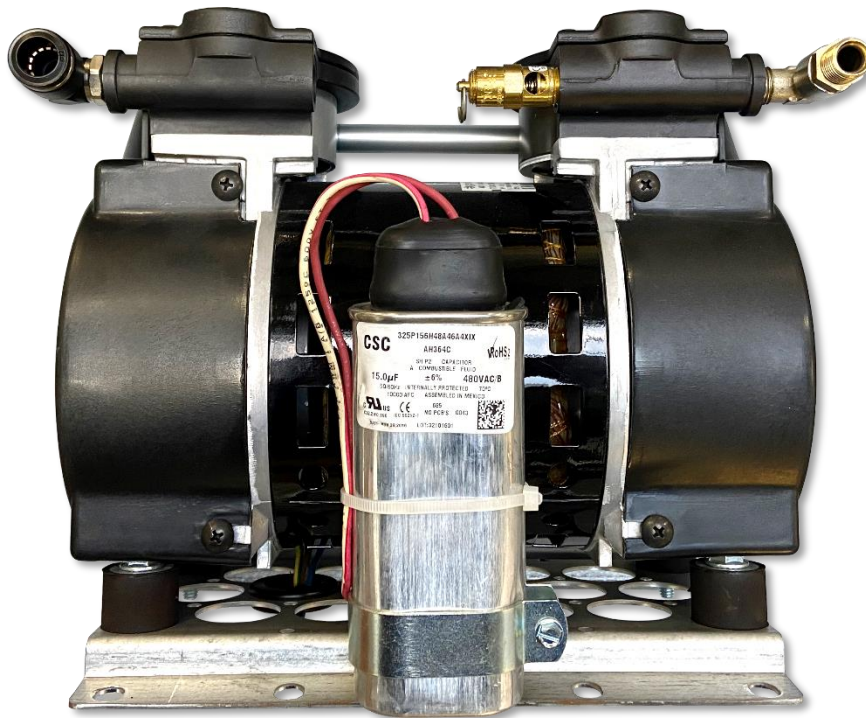
Medium difficulty



30 minutes / compressor

1. PRESENTATION.

Beyond **12,000** hours of operation of the generator and up to **15,000** hours (varying duration depending on the operating conditions of the compressor such as ambient temperature, air quality, duty rate), compressors are worn out and must be replaced.



Variant 6.2
Refer to the
operating mode
MOP 000 087 A

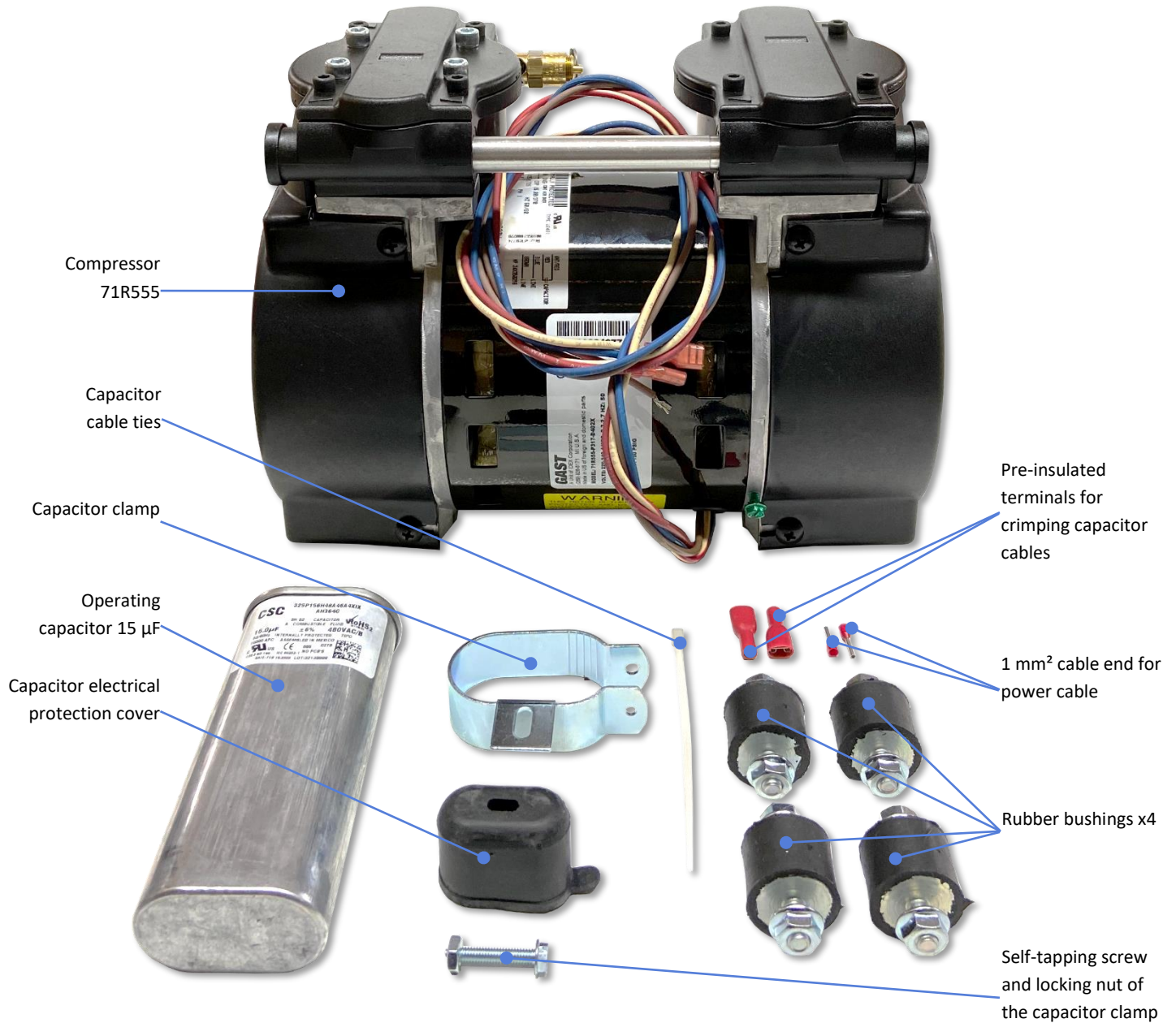
2. TOOLS.

The equipment below is **essential** to be able to carry out the replacement:

- suitable replacement kit;
- safety shoes;
- mounting gloves;
- anaerobic threadsealant PERMABOND MH072 (ref. 500 046);
- metric flat wrenches (SW 13, SW 14, SW 15 and SW 16);
- imperial flat wrenches (SW 1/4", SW 11/32" and SW 7/16");
- Phillips screwdriver;
- Allen wrench (AF 3);
- wire cutter;
- wire stripper;
- ratchet crimping pliers for insulated terminals;
- wire end crimping pliers.

3. CONTENT OF THE KIT.

Each compressor replacement kit should contain the following items:



4. REPLACEMENT OF A COMPRESSOR.

1. First follow the generator decommissioning procedure detailed in the manual.



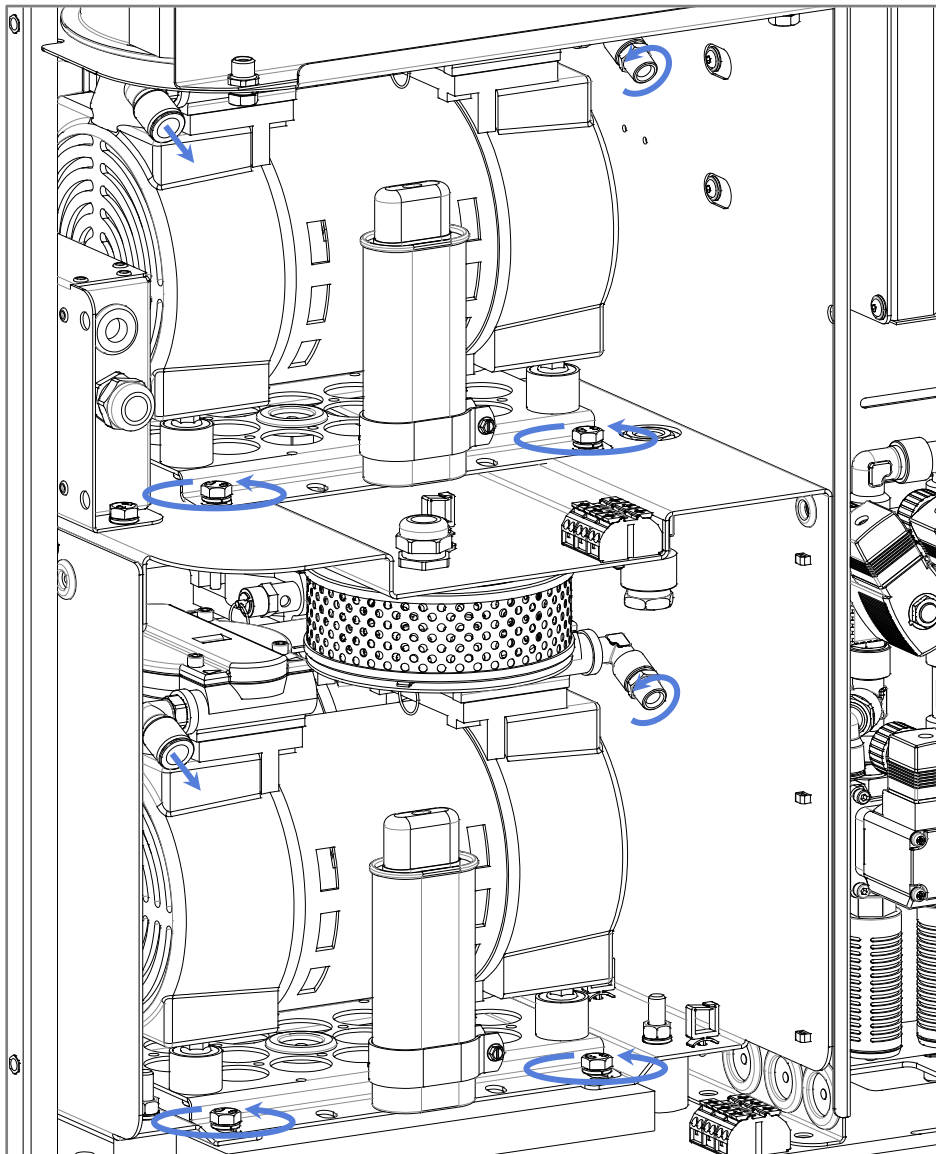
The unit has to be unplugged imperatively.

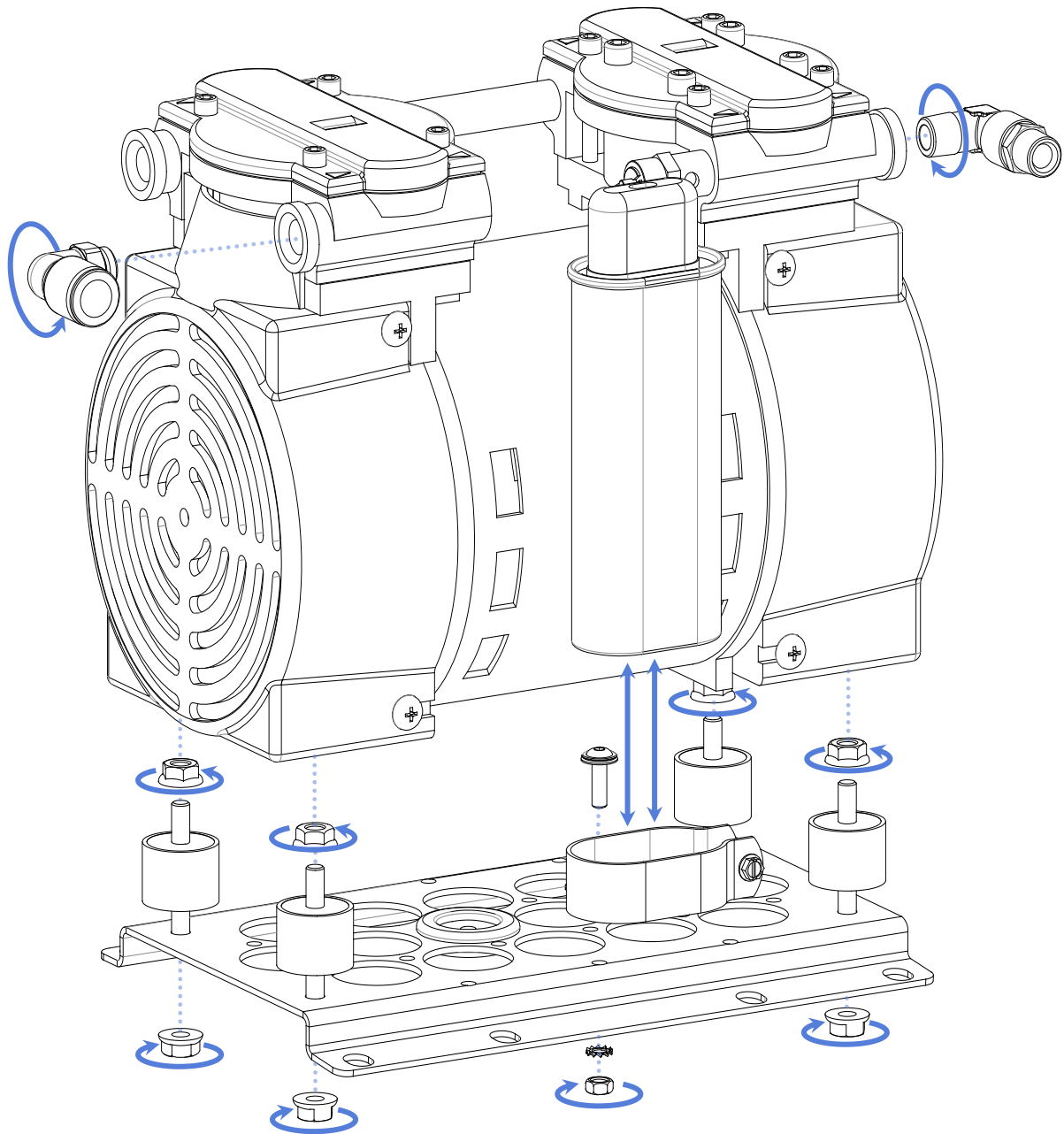


Risk of burns

Beware to surface temperature which can be very high.
Never work near the compressor before his cooling.

2. Unscrew the 4 screws located on the sides of the front door and remove it (*Allen wrench AF 3*).
3. Disconnect the compressor electrically (*Phillips screwdriver*).
4. Disconnect the air intake hose.
5. Disconnect the outlet flexible hose (*flat wrenches SW 15 and SW 16*).
6. Remove each compressor from the generator by removing the 2 screws holding each bracket (*flat wrench SW 13*).





7. Unscrew the air intake push-in fitting (F) from the old compressor and screw it back onto the new compressor (*flat wrench SW 16*).
8. Unscrew the assembly "elbow/flexible hose connector" located at the exhaust of the old compressor and screw it back with anaerobic threadsealant and taking care to keep the same orientation as initially (*flat wrench SW 14*).
9. Unscrew the capacitor clamp from each compressor and remove the capacitor (*Imperial flat wrenches SW 1/4" & SW 11/32"*).
10. Disconnect the earth cable from the old compressor by its screw (*Imperial flat wrenches SW 1/4"*) and reconnect it to the new one.
11. Take the compressor apart from its support by unscrewing the nuts of the 4 screws accessible from the underside of the support. Replace the new compressor in the same way with its new rubber bushings **taking care to insert a nut on the threaded shaft between each rubber bushing and the compressor body** (*Imperial flat wrench SW 7/16"*).

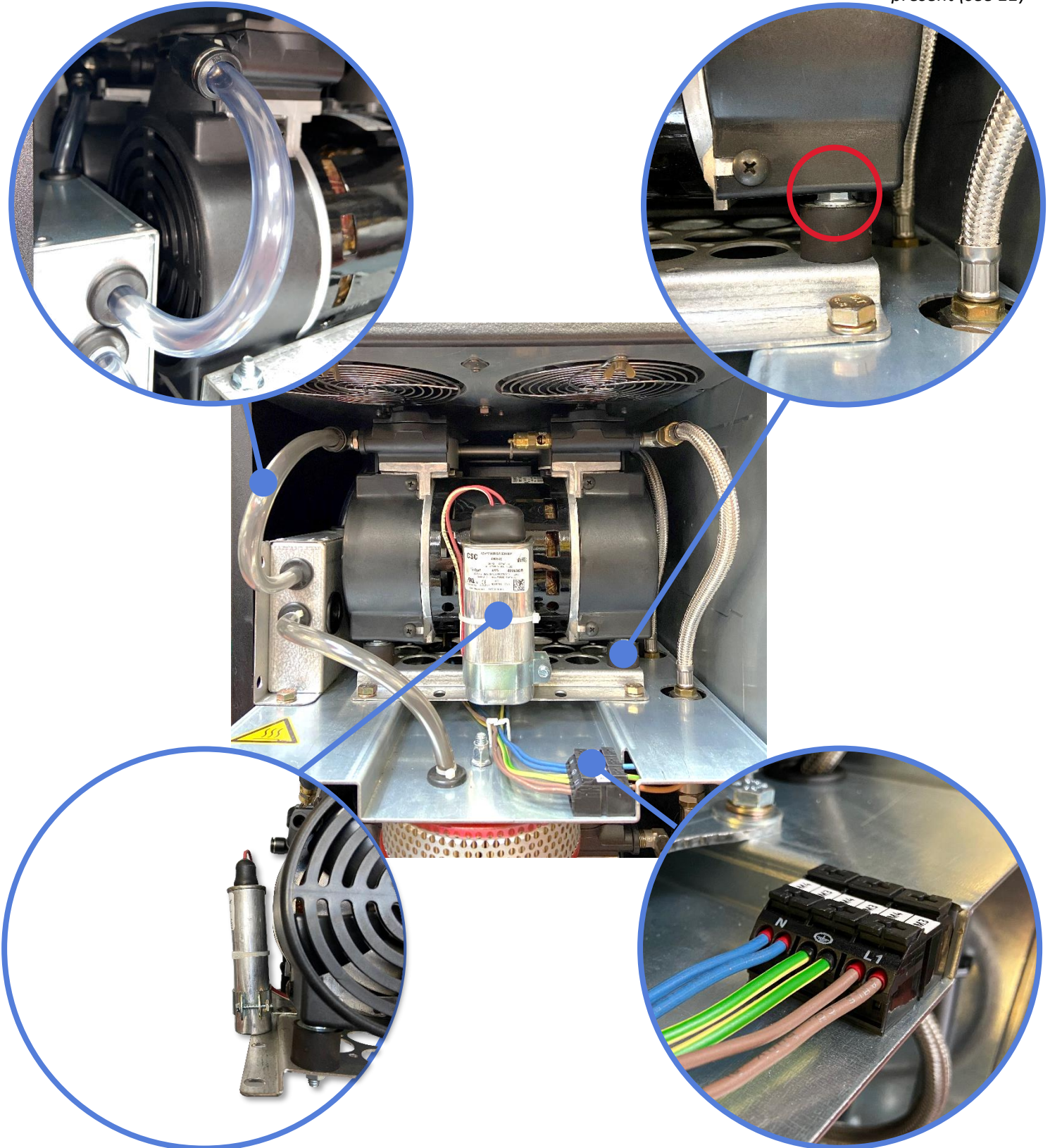
12. Place the capacitor of each new compressor in the clamp of its bracket and tighten it without excessively crushing the capacitor. **The capacitor must not be in contact with the compressor body**, keep a distance of at least 5 mm (*Imperial flat wrenches SW 1/4" & SW 11/32"*).
13. **Cut the 2 cables** of the capacitor as short as possible, then crimp a new insulated terminal to each cable (*wire cutter, wire stripper and ratchet crimping pliers for insulated terminals*).
14. Connect the 2 wires then install the electrical protection cover for the capacitor's electrical connections.
15. Use the cable tie to attach the cables, taking care that they are **not pinched or rubbing** against any surface.
16. Put the new equipped compressor in place of the old one on the generator board.
17. Tighten the 2 screws which hold the compressor support to the board (*flat wrench SW 14*).
18. Connect the air intake hose taking care not to **squeeze it**.
19. Connect the outlet flexible hose of the compressor (*flat wrenches SW 15 & SW 16*). Take care to check that the delivery hoses of the various compressors are **not pinched or in contact** with each other or with any other part of the compressors
20. **Cut the 2 blue and brown power cables**, then crimp a new red wire end to each cable (*wire cutter, wire stripper and wire end crimping pliers*).
21. Electrically reconnect the 3 compressor power wires (*by pressing on the notches of the black terminal block with a Phillips screwdriver*).
22. **Check that the grounding conductors are connected properly to the front door** before replacing it (*Allen wrench AF 3*).
23. Switch the generator back on.
24. **Reset the relevant replacement counters** of the PLC by following the procedure detailed in the generator manual.



5. KEY POINTS TO CHECK

*Non-pinched inlet
pipe (see 18)*

*Spacer nut
present (see 11)*



*Capacitor securely attached and
correctly positioned (see 12)*

*No unnecessary
cable length.*